

Work Order ID 131138

March-26-15 1:44:42 PM

131138

Page 1

Item ID: K10004 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Heavy Duty Saddle
 Start Date: 3/18/15 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 3/26/15 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MCJ Date: 15-03-31 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
K10004	Rev E

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile for K10004, D205-594-011/-013/-015 & D412-652-011/-21 and type labels per PPP K10004 CHG005								

DAS
27
9-89

DAS
6
9-89

MAY 12 2015

105	Pick Kit	0.00							
105									
Packaging	Memo	0.00							
Packaging									

DAS
27
9-89

DAS
28
9-89

APR 27 2015

110	QC4- 100% Inspect kits for completeness	0.00							
110									
QC	Memo	0.00							
Quality Control									

DAS
6
9-89

MAY 12 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

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MCS MAY 12 2015

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Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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March-26-15 1:44:39 PM

Work Order ID: 131138

Parent Item: K10004

Parent Item Name: Heavy Duty Saddle

131 138

K10004

Start Date: 3/18/15**Required Date:** 3/26/15**Start Qty: 1.00**

Required Qty: 1.00

Comments:

IPP: D05.07.22Reformat; Added D3428-3 per CHG003KJ/JLM

IPP Rev:E 08-09-29 revD as per dwg DD verified by: IPP Rev:F

chg005 DD 10.06.03 verf:JLM

IPP REV:G 13.08.21

REMOVED D3428-3 DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-51A *AN4-51A* Bolt		Purchased	No			105	Each	238.0000	16	16		DAS 27 9-89	DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>		APR 27 2015	
				FG				5					
				122993				5					
				ST312A				233					
				m129390				100					
				m131305				33					
				m131624				100					
AN5-15A *AN5-15A* Bolt		Purchased	No			105	Each	74.0000	32	32		DAS 27 9-89	DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>		APR 27 2015	
				GA				60					
				m130005				60					
				ST299A				14					
				m131305				14					
AN5-36A *AN5-36A* Bolt		Purchased	No			105	Each	95.0000	2	2		DAS 27 9-89	DAS 28 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>		APR 27 2015	
				ST336				95					
				M130325				1					
				M130466				19					
				M131624				75					

DQA: _____ Date: _____



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Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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March-26-15 1:44:40 PM

Parent Item Name: Heavy Duty Saddle

131138
K10004

Required Qty: 1.00

2 2

DAS

27

APR 2-7 2015

DAS

2 2

DAS

27

APR 27 2015

DAS

2 2

DAS

APR 27 2015

DAS

9-89

2

DAS

27

APR 27 2015

DAS

28

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data									
Equip/Tooling									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____ _____ _____ _____
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Picklist Print

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Page 3

Work Order ID: 131138

131138

Parent Item: K10004

K10004

Parent Item Name: Heavy Duty Saddle

Start Date: 3/18/15

Required Date: 3/26/15

Start Qty: 1.00

Required Qty: 1.00

D2570

Manufactured No

105

Each

677.0000

32

32

D2570

Bushing

DAS
6
9-89

Location

Loc Qty

Loc Code

FG	12	
88781	12	
FP001	19	
120285	19	
ST008	4	
116925	4	
ST012a	642	
117844	225	
120285	107	
129830	310	

DAS
27

DAS
28
9-89

D3407-041

Manufactured No

105

Each

11.0000

2

2

D3407-041

Tow Ring

DAS
6
9-89

Location

Loc Qty

Loc Code

st530	6	
129698	6	
ST532	5	
107840	3	
119184	2	

B1308Sg

2

DAS
27
9-89
APR 27 2015

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 4

Work Order ID: 131138

Parent Item: K10004

Parent Item Name: Heavy Duty Saddle

131138

K10004

Start Date: 3/18/15

Required Date: 3/26/15

Start Qty: 1.00

Required Qty: 1.00

D3417-5

Manufactured No

105 Each

93.0000

4

D3417-5

Washer

DAS
6
9-89

Location

Loc Qty

Loc Code

ST025A

91

118983

11

128483

40

129948

40

ST038

2

124382

2

**

DAS
27
9-89

DAS
28
9-89

D3456-1

Manufactured No

105 Each

76.0000

2

2

D3456-1

Washer

DAS
6
9-89

Location

Loc Qty

Loc Code

FG

7

25701

7

ST051A

69

128456

19

129861

50

**

DAS
27
9-89

DAS
28
9-89

D5951

Manufactured No

105 Each

4.0000

2

2

D5951

Saddle

DAS
6
9-89

Location

Loc Qty

Loc Code

ST399

4

124201

2

130250

2

**

DAS
27
9-89

DAS
28
9-89

APR 27 2015

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Shop Packet Print

Page 4

DQA: _____ Date: _____



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FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 131138

Parent Item: K10004

Parent Item Name: Heavy Duty Saddle

131138

K10004

Start Date: 3/18/15

Required Date: 3/26/15

Start Qty: 1.00

Required Qty: 1.00

D5953

Manufactured No

105 Each

8.0000

2

D5953

Saddle

**

DAS

27

9-89

DAS

28

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

ST398

4

127303

4

ST399

4

118835

2

124110

2

D5955

Manufactured No

105 Each

9.0000

2

D5955

Saddle

**

DAS

27

9-89

DAS

28

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

ST399

9

118848

3

124142

2

127341

4

D5957

Manufactured No

105 Each

8.0000

2

D5957

Saddle

**

DAS

27

9-89

APR 24 2015

DAS

28

9-89

DAS

6

9-89

Location

Loc Qty

Loc Code

ST399

8

119028

2

127701

4

130251

2

March-26-15 1:44:41 PM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 131138

Parent Item: K10004

Parent Item Name: Heavy Duty Saddle

131138

K10004

Start Date: 3/18/15

Required Date: 3/26/15

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

105

Each

2,797.000

16

16

MS21042L4

Locknut

DAS

27
9-89

DAS
28
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

634

m127813

634

ST260a

1056

m130799

56

m131803

1000

ST305

1065

426

426

m128300

8

m128798

10

m130922

97

m131340

512

m131618

12

MS21042L5

Purchased

No

105

Each

489.0000

40

40

MS21042L5

Nut

DAS

27
9-89

DAS
28
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

150

m127813

150

ST305

339

m127813

306

m130388

4

m131340

29

APR 24 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Picklist Print

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Work Order ID: 131138

131138

Parent Item: K10004

K10004

Parent Item Name: Heavy Duty Saddle

Start Date: 3/18/15

Required Date: 3/26/15

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Purchased

No

105

Each

1,192.000

2

2

MS21043-4

Nut

DAS
6
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	40
104603	40
GA	408
m128798	408
ST304	744
m128818	34
<u>m131697</u>	710

DAS
28
9-89

NAS1149D0563J

Purchased

No

105

Each

847.0000

80

80

NAS1149D0563J

Washer

DAS
6
9-89

**

DAS
27
9-89
APR 24 2015

Location

Loc Qty

Loc Code

GA	130
m125807	130
ST260a	68
113524	3
118206	2
m130799	63
ST269	156
m128257	156
ST271	493
m131026	493

DAS
28
9-89

m132035 80

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

THIS KIT CONTAINS PARTS AND PAPERWORK APPLICABLE TO THE FOLLOWING
LANDING GEAR INSTALLATIONS:

AIRCRAFT	INSTALLATION
BELL 412	D412-652-011 D412-652-021
BELL 205/212/214	D205-594-011 D205-594-013 D205-594-015
BELL 204	D205-594-021 D205-594-023

THE FOLLOWING PARTS SHOULD BE USED PER THE RELEVANT DRAWINGS AND THE
FOLLOWING TABLE (REF):

PART NUMBER	K10004	D412-652-011 D412-652-021	D205-594-011 D205-594-013 D205-594-015 D205-594-021 D205-594-023
D205-641-011	2	2	2
D2570	32	32	32
D3407-041	2	2	2
D3417-5	4	4	4
D3428-3*	1	N/A	1
D3456-1	2	2	2
D5951	2	2	2
D5953	2	2	2
D5955	2	2	2
D5957	2	2	2
AN4-51A	16	16	16
AN5-15A	32	32	32
AN5-36A	2	2	2
AN5-42A	2	2	2
AN5-43A	2	2	2
AN5-45A	2	2	2
AN960JD516	80	80	80
MS21042-4 (OR L4)	16	16	16
MS21042-5 (OR L5)	40	40	40
MS21043-4	2	2	2

*REQUIRED WITH D205-594-011/-013 INSTALLATIONS ON 214 AIRCRAFT ONLY

E	D3407-041 WAS D3407-045; REMOVE D3812-1; REASON: TOW RING IS CHANGED ON D205-634-011/ D204- 635-011 SKIDTUBES @ CHG 007 AND D205-634-015 SKIDTUBES @ CHG 006. SEE DSI 9417/9418 @ REV. B	PH	09.01.28
D	D3407-045 WAS D2707-041; D3456-1 WAS AN970-4; MS21043-4 REPLACES MS21042-4 (QTY 2); ADD D3417-5 AND D3812-1; ADD REFERENCE TO D205-594-021/-023	PH	08.09.11
C	ADD D3428-3 PLACARD	PH	05.07.22
B	ADD D2707-041 OPTION	DS	00.11.22
A	NEW ISSUE	DS	00.06.01
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		K10004	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		SADDLE KIT	NTS
DATE	09.01.28	COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

131138 MLS
1503-31

THIS KIT CONTAINS PARTS AND PAPERWORK APPLICABLE TO THE FOLLOWING
LANDING GEAR INSTALLATIONS:

AIRCRAFT	INSTALLATION
BELL 412	D412-652-011 D412-652-021
BELL 205/212/214	D205-594-011 D205-594-013 D205-594-015
BELL 204	D205-594-021 D205-594-023

THE FOLLOWING PARTS SHOULD BE USED PER THE RELEVANT DRAWINGS AND THE
FOLLOWING TABLE (REF):

PART NUMBER	K10004	D412-652-011 D412-652-021	D205-594-011 D205-594-013 D205-594-015 D205-594-021 D205-594-023
D205-641-011	2	2	2
D2570	32	32	32
D3407-041	2	2	2
D3417-5	4	4	4
D3428-3*	1	N/A	1
D3456-1	2	2	2
D5951	2	2	2
D5953	2	2	2
D5955	2	2	2
D5957	2	2	2
AN4-51A	16	16	16
AN5-15A	32	32	32
AN5-36A	2	2	2
AN5-42A	2	2	2
AN5-43A	2	2	2
AN5-45A	2	2	2
AN960JD516	80	80	80
MS21042-4 (OR L4)	16	16	16
MS21042-5 (OR L5)	40	40	40
MS21043-4	2	2	2

*REQUIRED WITH D205-594-011/-013 INSTALLATIONS ON 214 AIRCRAFT ONLY

E	D3407-041 WAS D3407-045; REMOVE D3812-1; REASON: TOW RING IS CHANGED ON D205-634-011/ D204- 635-011 SKIDTUBES @ CHG 007 AND D205-634-015 SKIDTUBES @ CHG 006. SEE DSI 9417/9418 @ REV. B	PH	09.01.28
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C	ADD D3428-3 PLACARD	PH	05.07.22
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REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. E
MFG. APPR.		K10004	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		SADDLE KIT	NTS
DATE	09.01.28	COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	